9

App. F. IX-4

Previous References. (1940-1 War) War File No. 175-40.
Serial Nos. 6 & 7.

Later References.

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. Two only.

Part B for June 1942

SUBJECT.

Glass Substitute for A.R.P. use.

16.6.42

2157/W 2516/W Glass Substitute - A.R.P.

General and Revenue Secretariat | W 175 File No. | of 1940. | [App. F. III-2

OFFICE OF THE MINISTER FOR LAW
MAY 30 1942
No. 12230

Serial No. 6

From The Secy to Govt Home Dept
F. 3(27)-42/W dd 28th ult forwarding
6 Copies of Govt of India Supply Dept letter to all
Provincial Govts dd 13th ult.

Subd for perusal. The Labour Dept
letter dd 9th Inst. 42 is addressed to all A & B1
factories. The only B1 factory in the State
is that of Steel Works. A copy of the
factories will be sent to the Chief Inspector of Factories from Works for information

Chief Inspector of Factories from Works for information

28/5

Submitted

29/5

CHIEF INSPECTOR OF FACTORIES
29 MAY 1942
GOVT OF MYSORE

Law Secretary

30/5

30/5

Subd with letters to the Concerned Offices.

2/6

Issued 3314-16/W dd 2nd June-42
to the Secy
to Govt Home Works
C.I of Factories.

NOTE—Cont. Sheet.

WD 04155—GPB—55,000—23-10-41

W 175-40-6.

2154/W.

The reply to this communication should be addressed to the Secretary to the Resident in Mysore, Bangalore, by designation and not by name.

No. F.3(27)-42/W.

FROM

THE SECRETARY
TO THE HON'BLE THE RESIDENT IN MYSORE.

To

The Chief Secretary to the Government of
His Highness the Maharaja of Mysore,
Bangalore.

CHIEF SECRETARY
28 MAY 1942
GOVT. OF MYSORE.

Dated Bangalore, the 28th May *1942.*

Glass substitute - A.R.P.

SIR,

I am directed to refer to my letter No.F.78(12)-40/W, dated the 9th March 1942, and to forward for information a copy of the Government of India, Civil Defence Department letter to all Provincial Governments and Chief Commissioners, No.27/42-A.R.P.1(S), dated the 13th May 1942, with enclosures.

I have the honour to be,
Sir,
Your most obedient servant,

for SECRETARY TO THE RESIDENT.

1C47.

Government of India, Civil Defence Department letter to all Provincial Governments and Chief Commissioners, No. 27/42-A.R.P.I(S) dated the 13th May 1942.

Civil Defence Department Circular No.210/42.

Subject:- Glass substitute - A.R.P.

I am directed to refer to the Government of India, Civil Defence Department letter No.268/41-ARP.1(S), dated the 19th February, 1942, and to say that the manufacture of the fabric glass substitute is not now being undertaken by the Defence Department.

The firm manufacturing this material in India is the Indian Glass Substitute Company, P.O. Baksar, Simbhaoli, District Meerut, from whom samples and supplies may be obtained direct.

The material consists of a medium weight drill treated with a dope. It has not been possible to test this substitute over a long period of time but a Government Committee in January last stated that it was satisfied that the material referred to would give efficient service over a minimum period of three months. Material fixed in windows in Delhi has successfully withstood the weather for the last six months and there is every indication that this material if properly fixed and efficiently maintained, will give even longer service. This should tide over the present emergency or until a more permanent substitute can be developed or imported.

A copy of the Schedule and Notes which accompanied Labour Department's order under Rule 51 C of the Defence of India Rules, issued to Class A and BI factories ordering them to remove glass from certain rooms, is forwarded herewith for information and guidance.

I am to add that the firm mentioned above also manufacture a dope which can be applied to locally obtained fabric after it has been fixed in the opening. Full details may be obtained direct from the firm.

Government of India,Department of Labour - Chief Adviser, Factory Air Raid Precautions' letter No.S/9 dated 9th January 1942 to all A and B-I Factories, etc.

I have the honour to enclose herewith an order under Rule 51C of the Defence of India Rules requiring you to remove all glass in rooms where vital plants and processes are installed and, where daylight is desirable, to replace it by a glass substitute. For the time being this substitute and the solution can be obtained from the Indian Glass Substitute Company, P.O. Baskar, Simbhaoli District Meerut. It has not been possible to test these substitutes over a period of time but Government are satisfied that the one indicated will give efficient service over a minimum of 3 months and will thus tide over the present emergency until more permanent substitutes can be imported.

You should make your own arrangement with the firm concerned for securing the glass substitute. A note on the method of applying the substitute is attached.

An alternative method of applying the substitute is to insert suitable cloth in the window apertures and then treat it with the special solution. The Indian Glass Substitute - Company can supply the solution together with the instructions for its use.

S c h e d u l e.-

Remove all glass whether wired or protected by wire or not from doors, windows, lights and apertures, where vital plant and processes are concerned. Where daylight is desirable the glass should be replaced by glass substitute; other apertures being preferably bricked up or where bricking is not possible boarded up, the boards being treated with fire proof paint of the following composition:-

Sodium silicate (in the form of syrup)	112 lbs.
Kaolin (china clay)	150 lbs.
Water	100 lbs.

All other glass should be removed wherever possible. Where it cannot be removed it should be protected by double $\frac{1}{2}$" wire mesh securely fitted 1 inch on the inside of the glass.

FLEXIBLE SUBSTITUTES FOR GLASS

The material, while standing up to wind pressure, should be capable of being dislodged by blast so that it can be readily replaced. The weaker materials should not be used in large unsupported areas. On such areas the ~~prop~~ opening should be sub-divided by wooden bars

Tests have shown that if flexible glass substitutes are fixed with nails or staples, the material when displaced is usually torn at the edges. Also where edge fixing is too strong the material may be burst in the centre. The methods of fixing are therefore important; it is considered that the best methods include the following: -

(i) Fixing the edges continuously to the window frame by means of a non-hardening putty, mastic or adhesive tape.

(ii) Using panels on batten framing lightly fixed to the window frames.

(iii) Fixing on the fact of wooden frames by laths or beading, care being taken that the tacks securing the laths do not penetrate the material.

(i) and (ii) can be used with both metal and wooden frames. The substitut should be strained to form a tight membrane.

For fixing in roof lights materials of the appropriate width can inserted directly in place of the glass provided there is sufficient rigidity to withstand wind pressure; otherwise cross supports at regular intervals will be necessary. Thin wooden beads should be inserted under each side of the material so that the total thickness approximates to tha of the original glass; the lead flashing will then go back into its original position.

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W 175-40-4

2nd June 1942.

3314-16/W.
Encs 2
I. G. P.
Ch. Insp^r of Factories
G. M., Iron Works

Glass substitute - A.R.P.

I am directed to forward for information a copy of letter No.27/42-A.R.P.I.(S), dated the 13th May 1942, with enclosures from the Government of India, Civil Defence Department to all Provincial Governments, received from the Residency on the above subject.

I have the honour to be,
Sir,
Your most obedient servant,

For Chief Secretary to Government.

Copy of Govt. of India, Civil Defence Dept. letter to all Provincial Govts. and Chief Commrs., No.27/42-A.R.P.I(S) dated the 13th May 1942.

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Civil Defence Dept. Circular No.210/42.

Subj:- Glass substitute - A.R.P.

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Govt. of India, Dept. of Labour - Chief Adviser, Factory A.R.P. letter No.S/9 dated 9th Janry. 1942 to all A. & B-I Factories, etc.

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SCHEDULE.

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2516/W

THE MYSORE IRON & STEEL WORKS

(GOVERNMENT OF MYSORE)

TELEGRAPHIC ADDRESS:
'MYSIRON', BHADRAVATI
CODES:
BENTLEY'S
WESTERN UNION FIVE LETTER
A.B.C. 6TH EDITION

BHADRAVATI (INDIA)

Ref. No. G/

18th June 1942.

The Chief Secretary to the Government
of His Highness the Maharaja of Mysore,
BANGALORE.

Dear Sir,

Glass Substitute - A.R.P.

I beg to acknowledge with thanks receipt of a copy of letter No.27/42-A.R.P.1.(S), dated the 13th May 1942, with enclosures on the above subject from the Government of India, Civil Defence Department to all Provincial Governments, received from the Residency, sent under cover of your letter No.3314-16/41 dated 2nd June 1942.

War

CHIEF SECRETARY
20 JUN 1942
GOVT. OF MYSORE

Yours faithfully,

General Manager &
Controller, A.R.P.

Subs for perusal

BNM/